

FLOW CELLS UTILIZING PHOTOMETRIC TECHNIQUES

Abstract of the Disclosure

5 A flow cell for transporting fluid in a radiant energy field includes a cell structure having a tube extending therethrough including a radiant energy blocking portion integral therewith. In a particular embodiment, the cell structure includes one or more end caps having a protrusion extending therefrom, wherein the

10 protrusion may be inserted into the tube to create a fluid seal, the end caps including open channels for transporting fluid and radiant energy therethrough, and the tube in the cell structure includes an efficient radiant energy transmission lining that is spaced from

15 the end cap protrusions, thereby forming a gap volume in the flow cell open channel, which gap volume may be calibrated such that radiant energy losses may be standardized in respective flow cells transporting fluids having various indexes of refraction.

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